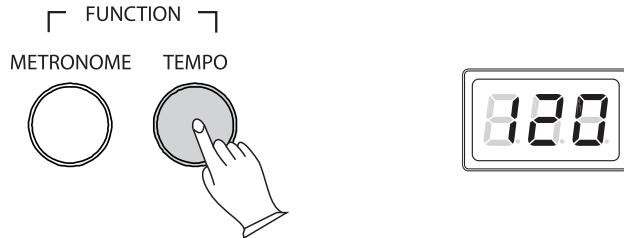


Tempo

The tempo of the metronome may range from 20 to 280 beats per minute (BPM).



To change the tempo, press and hold the button for 3 seconds to change the setting. The LED will blink to the current tempo speed. If the Metronome is off, no sound will be heard.

Press a key on the keyboard to select a tempo. The LED will blink to the new value. It is possible to make multiple changes and see the LED tempo change as the keys are pressed.

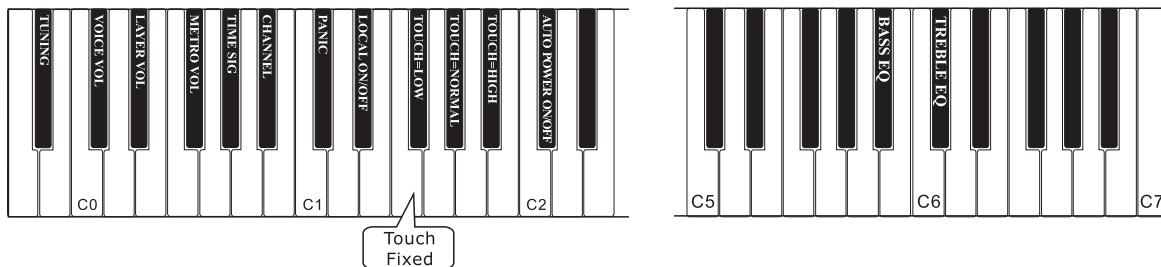
To exit, press the tempo button. The LED will stop blinking and not light. See Appendix for the value ranges. For example 120BPM is the C3 piano key.

Tempo defaults to 120 but settings are retained when the power is turned off.

Edit Functions

In Edit Mode the keys on the keyboard are used for selecting the Function to be edited. To enter Edit Mode, press the Metronome and Tempo buttons at the same time.

Function Key Assignments



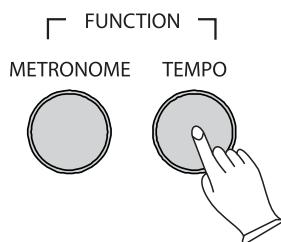
Please refer to pages 14 and 11 for information about the Metronome and Layer functions.

Master Tuning

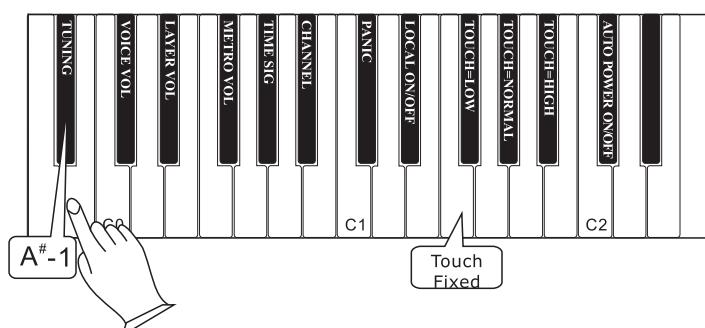
The piano is tuned to A440 when the power is turned on and does not require tuning. However, if desired, the tuning may be adjusted in small increments from -64 to +63 cents (one semitone).

To change the Master Tuning:

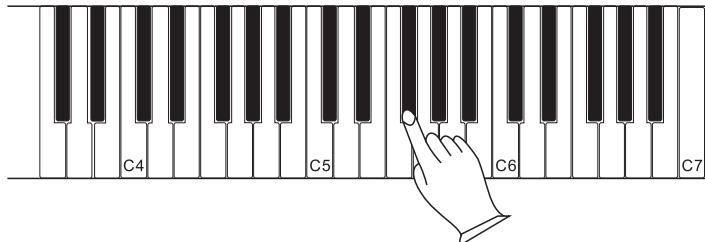
Press the [METRONOME] and [TEMPO] button together to enter Edit Mode.



Press the Tunning key A[#]-1 to select the Master Tuning Function. The keyboard will now play middle C piano 1 voice (C3) on every note across the keyboard. Playing C3=C3. Pressing any key downwards to A[#]-1 will play C3 but change the tuning setting proportionately to tune down by a whole semi tone.



Pressing any key from C3 and up will play the c3 note but at tuning settings proportionately so that its possible tune up by a whole semi tone. The user will use his ears to determine the correct tuning setting. LED display will be synchronous display values. See the Appendix for the value ranges.



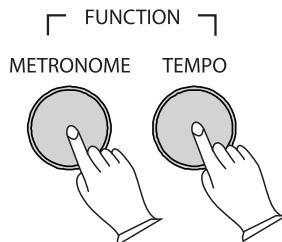
Press the [METRONOME] and the [TEMPO] buttons again to exit Edit Mode.

Touch

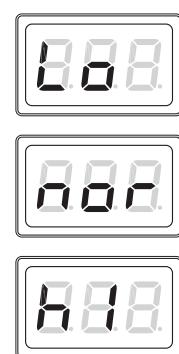
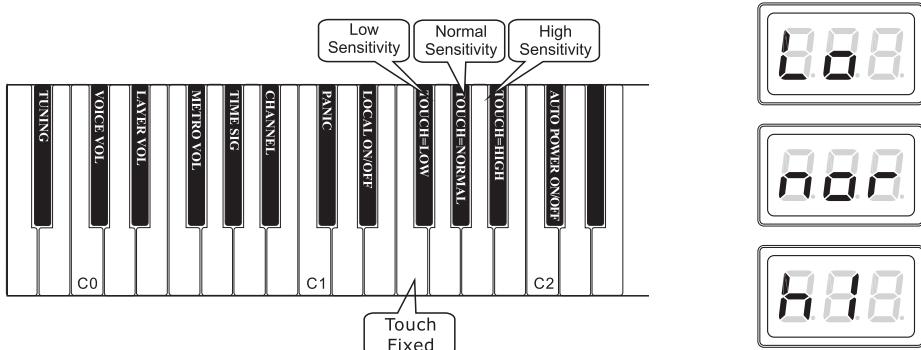
The Touch Select function allows the choice of 3 keyboard sensitivity settings for different playing styles: Low Sensitivity, Normal Sensitivity and High Sensitivity. This affects the volume of the piano as you play the keys.

To Set the Keyboard Sensitivity

Press the [METRONOME] and the [TEMPO] buttons together to enter the Edit mode.



Press the desired Touch Select key (F#1, G#1, A#1) to select between Low, Normal and High velocity curves. LED display will be synchronous display the state.



Setting Fixed Touch Value

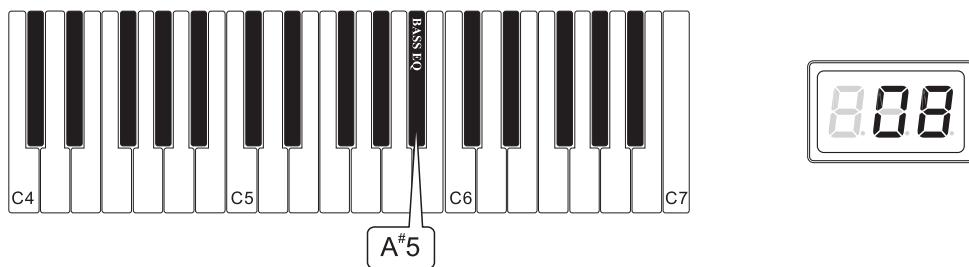
Press the left key of the TOUCH=LOW key repeatedly to select: Touch Fixed , LED will display: OFF. It means that regardless of how hard you play, the keyboard will transmit a velocity value of 100.

EQ Adjustment

To change the sound of your piano's amplifier you can adjust the EQ to add more Bass or to remove some of the Treble.

To Change the Bass Response

1. Press the [METRONOME] and [TEMPO] Buttons together to enter the Function Edit mode.
2. Press the A[#]5 piano key activates the Bass EQ Function



3. The Bass EQ can be changed by pressing white piano keys only from the A-1 piano key to D3 piano key. LED display will be synchronous display values.

Pressing the F1 Piano Key sets the Bass EQ to its center point EQ Setting.

Pressing the A-1 Piano Key will reduce the Bass response by -12dB.

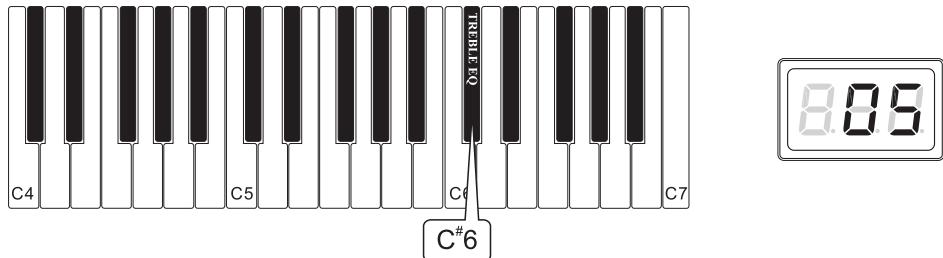
Pressing the D3 Piano Key therefore increases the Bass response by 12 dB.

For the Keyboard Chart of the piano key numbers and listings please page 29 of the Advanced Keyboard Functions.

4. Press the [METRONOME] and [TEMPO] Buttons together again to exit the Function Mode. Then play the lower half of the piano to hear the bass response increase for the changes that you have made in the Bass EQ settings.

To change the Treble Response

1. Press the [METRONOME] and [TEMPO] Buttons together to enter the Function Edit Mode.
2. Press the C[#]6 piano key activates the Treble EQ Function.



3. The Treble EQ can be changed by pressing white piano keys only from the A-1 piano key to D3 piano key.

Pressing the F1 Piano Key sets the Treble EQ to its center point EQ Setting. Pressing the A-1 Piano Key will reduce the Treble response by -12dB. Pressing the D3 Piano Key therefore increases the Treble response by 12 dB.

For Example to set the Treble EQ setting to 10 dB you would press the B2 white piano key.

To set the Treble EQ to -8 dB you would press the E0 piano key.

For the Keyboard Chart of the piano key numbers and listings please page 29 of the Advanced Keyboard Functions.

4. Press the [METRONOME] and [TEMPO] Buttons together again to exit the Function mode.

Then play the keyboard in the upper half of the piano keys to test the changes that you made in the TREBLE EQ Setting.

NOTE

Bass and Treble EQ settings will be stored in the pianos memory and the latest setting will be used when the piano is powered up again.

To set the piano to its Default Settings press and hold the [REVERB] and [CHORUS] buttons while turning the piano's power switch on.

MIDI Functions

MIDI Channels

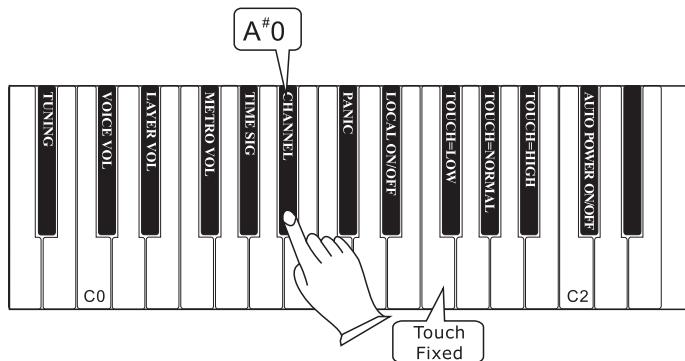
MIDI Out channel values range from 1 to 16.

To change the MIDI Out Channel Value: While in the Edit Mode press the A[#]0 key the amount of times that correspond to the MIDI Out Channel that you desire.

LED display will be synchronous display values.

The default MIDI Out channel is 1.

If you press The A[#]0 piano key 9 times in a row while still in the Edit Mode you will see that the new MIDI Out channel is 9.

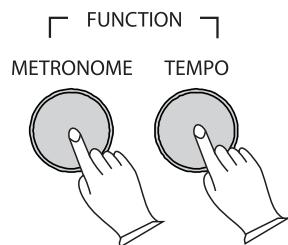


Local On/Off

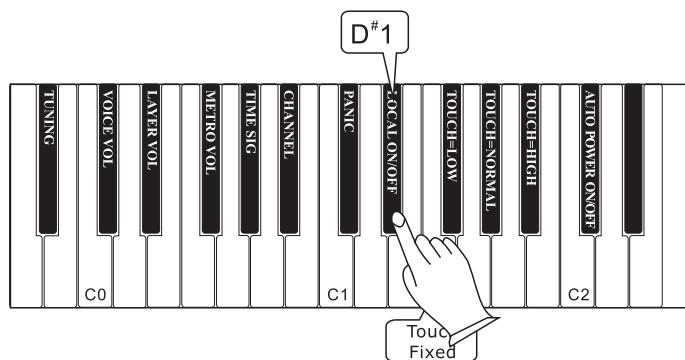
Turning the Local On/Off function to Off will disconnect the keyboard from the internal sound engine of this piano. This means you can use the piano as a MIDI controller to control other MIDI devices (or virtual instrument software running on

your computer) without playing the internal sounds of this piano. You may also find other occasions (such as when you are using MIDI sequencing software on your computer) where it is useful to turn Local off.

Press the [METRONOME] and the [TEMPO] Buttons together to enter the edit mode.



Press the Local On/Off key (D#1) to switch local on or off. LED display will be synchronous display the state. If you press the D#1 key again you will need to re-enter your desired settings.



Press the [METRONOME] and the [TEMPO] Buttons again to exit the edit mode.

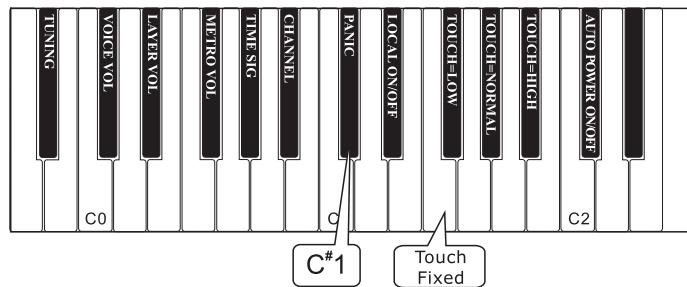
MIDI Panic Key

Pressing the Panic key will send out a “Reset All Controllers” and “All Notes Off” MIDI Message on ALL MIDI Channels 1 - 16. This can be especially useful for clearing “stuck notes” when controlling external MIDI devices or software.

To use the Panic key to send out a “Reset All Controllers” and “All Notes Off” MIDI Message on ALL MIDI Channels 1 - 16:

Press the [METRONOME] and [TEMPO] button together to enter Edit Mode.

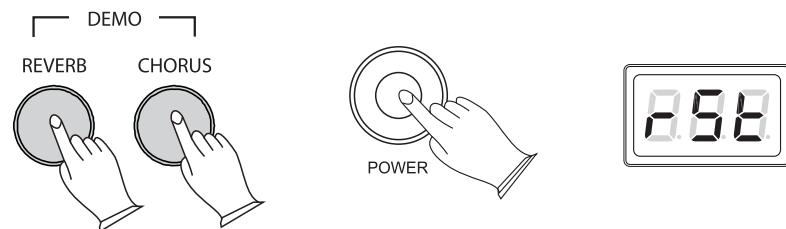
Press the Panic Key (C[#]1) allows the user to activate Panic, which send out general MIDI reset messages such as all note off, etc. Once Panic reset has been completed, Piano will automatically exit Edit mode.



Factory Reset

Performing a Factory Reset will clear all battery backed memory and restore all functions to their factory defaults, just like they were when you used this piano for the first time.

1. Turn the Power Off.
2. Hold down the [REVERB] and the [CHORUS] buttons while powering on the piano.



LED will display rSt.

When the [REVERB] and the [CHORUS] buttons are released, this piano will return to Performance Mode (ready-to-play). All button LEDs will return to their default states.

This piano will then function normally and as if powered on for the first time.

Appendix

MIDI Implementation Chart

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1-16 1-16	1-16 1-16	*Up to 3 channels simultaneously
Mode	Default Messages Altered	Mode 3 Yes *****	Mode 3 No No	
Note Number	True voice	0~127 *****	0~127	
Velocity Note	Note ON Note OFF	Yes Yes	Yes Yes	
After Touch	Key's Channels	No No	No No	
Pitch Bend		No	No	
Control Change		0-127	0,1,5,6,7,10,11, 32,64,65,66,67, 80,81,91,93,100, 101,121	
Program Change	True #	0-127 *****	0-7	8
System Exclusive		Yes*	Yes*	*The controller will recognize and respond to GM Device inquiries. Master Tune supported. Master Volume supported.
System Common	Song Position Pointer Song Select Tune Request	No No No	No No No	
System Real Time	Clock Commands	No No	No No	
Aux Messages	All Sounds Off* Reset All Controllers Local ON/OFF* ALL Notes OFF Active Sensing System Reset	Yes Yes Yes Yes No No	Yes Yes Yes Yes Yes Yes	* The controller will respond to GM, but not piano voices.
Notes				

MIDI Channel Modes		
	POLY OFF	MONO ON
OMNI ON	Mode1	Mode3
OMNI OFF	Mode2	Mode4

Parameter adjusting instructions

According to chart shown below, choose corresponding key to set the desired values.

	Tuning	Voice Vol	Layer Vol	Metro. Vol	Reverb Vol	Chorus Vol	Tempo	Treble EQ	Bass EQ
A-1	0	0	0	0	0	0	20	-12	-12
A#-1	3	2	2	2	2	2	24	×	×
B-1	5	4	4	4	4	4	28	-11	-11
C0	8	6	6	6	6	6	32	-10	-10
C#0	10	8	8	8	8	8	36	×	×
D0	13	10	10	10	10	10	40	-9	-9
D#0	15	12	12	12	12	12	44	×	×
E0	18	14	14	14	14	14	48	-8	-8
F0	20	16	16	16	16	16	52	-7	-7
F#0	23	18	18	18	18	18	56	×	×
G0	26	20	20	20	20	20	60	-6	-6
G#0	28	22	22	22	22	22	62	×	×
A0	29	24	24	24	24	24	64	-5	-5
A#0	31	26	26	26	26	26	66	×	×
B0	32	28	28	28	28	28	68	-4	-4
C1	33	30	30	30	30	30	70	-3	-3
C#1	35	32	32	32	32	32	72	×	×
D1	36	34	34	34	34	34	74	-2	-2
D#1	37	36	36	36	36	36	76	×	×
E1	38	38	38	38	38	38	80	-1	-1
F1	40	40	40	40	40	40	82	0	0
F#1	41	42	42	42	42	42	84	×	×
G1	42	44	44	44	44	44	86	1	1
G#1	44	46	46	46	46	46	88	×	×

	Tuning	Voice Vol	Layer Vol	Metro. Vol	Reverb Vol	Chorus Vol	Tempo	Treble EQ	Bass EQ
A1	45	48	48	48	48	48	90	2	2
A#1	46	50	50	50	50	50	92	×	×
B1	47	52	52	52	52	52	94	3	3
C2	49	54	54	54	54	54	96	4	4
C#2	50	56	56	56	56	56	98	×	×
D2	51	58	58	58	58	58	100	5	5
D#2	52	60	60	60	60	60	102	×	×
E2	54	62	62	62	62	62	104	6	6
F2	55	64	64	64	64	64	106	7	7
F#2	56	66	66	66	66	66	108	×	×
G2	58	68	68	68	68	68	110	8	8
G#2	59	70	70	70	70	70	112	×	×
A2	60	72	72	72	72	72	114	9	9
A#2	61	74	74	74	74	74	116	×	×
B2	63	76	76	76	76	76	118	10	10
C3	64	78	78	78	78	78	120	11	11
C#3	65	80	80	80	80	80	122	×	×
D3	67	81	81	81	81	81	124	12	12
D#3	68	82	82	82	82	82	126	×	×
E3	69	83	83	83	83	83	128	×	×
F3	70	84	84	84	84	84	130	×	×
F#3	72	85	85	85	85	85	132	×	×
G3	73	86	86	86	86	86	134	×	×
G#3	74	87	87	87	87	87	136	×	×
A3	76	88	88	88	88	88	138	×	×
A#3	77	89	89	89	89	89	140	×	×
B3	78	90	90	90	90	90	142	×	×
C4	79	91	91	91	91	91	144	×	×

	Tuning	Voice Vol	Layer Vol	Metro. Vol	Reverb Vol	Chorus Vol	Tempo	Treble EQ	Bass EQ
C#4	81	92	92	92	92	92	146	×	×
D4	82	93	93	93	93	93	148	×	×
D#4	83	94	94	94	94	94	150	×	×
E4	84	95	95	95	95	95	152	×	×
F4	86	96	96	96	96	96	154	×	×
F#4	87	97	97	97	97	97	156	×	×
G4	88	98	98	98	98	98	158	×	×
G#4	90	99	99	99	99	99	160	×	×
A4	91	100	100	100	100	100	162	×	×
A#4	92	101	101	101	101	101	164	×	×
B4	93	102	102	102	102	102	166	×	×
C5	95	103	103	103	103	103	168	×	×
C#5	96	104	104	104	104	104	170	×	×
D5	97	105	105	105	105	105	172	×	×
D#5	99	106	106	106	106	106	174	×	×
E5	100	107	107	107	107	107	176	×	×
F5	101	108	108	108	108	108	178	×	×
F#5	102	109	109	109	109	109	180	×	×
G5	104	110	110	110	110	110	185	×	×
G#5	105	111	111	111	111	111	190	×	×
A5	106	112	112	112	112	112	195	×	×
A#5	108	113	113	113	113	113	200	×	×
B5	109	114	114	114	114	114	205	×	×
C6	110	115	115	115	115	115	210	×	×
C#6	111	116	116	116	116	116	215	×	×
D6	113	117	117	117	117	117	220	×	×
D#6	114	118	118	118	118	118	225	×	×
E6	115	119	119	119	119	119	230	×	×

	Tuning	Voice Vol	Layer Vol	Metro. Vol	Reverb Vol	Chorus Vol	Tempo	Treble EQ	Bass EQ
F6	116	120	120	120	120	120	235	×	×
F#6	118	121	121	121	121	121	240	×	×
G6	119	122	122	122	122	122	245	×	×
G#6	120	123	123	123	123	123	250	×	×
A6	122	124	124	124	124	124	255	×	×
A#6	123	125	125	125	125	125	260	×	×
B6	125	126	126	126	126	126	270	×	×
C7	127	127	127	127	127	127	280	×	×

Note:

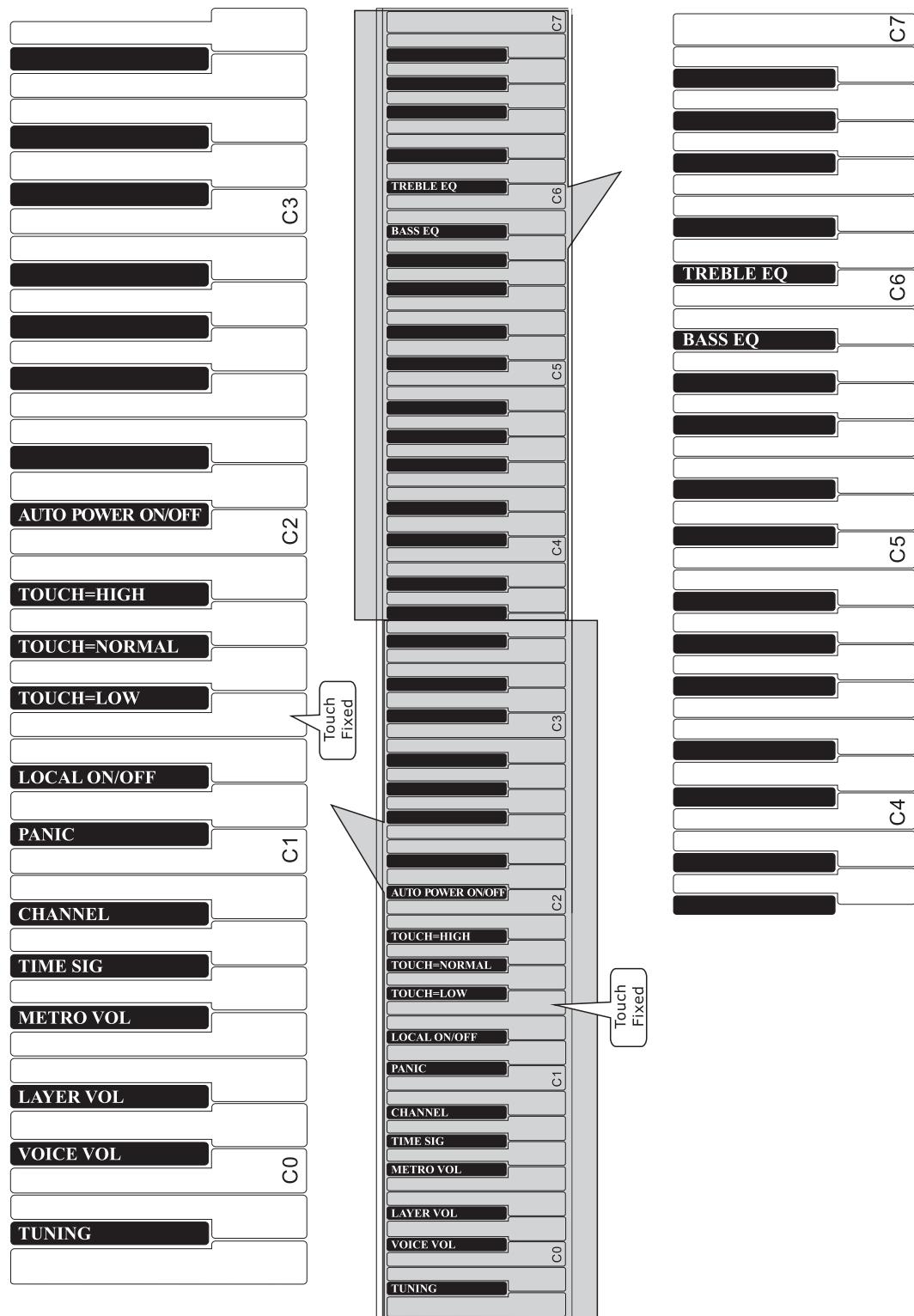
X: No value available for this particular Edit Function on this key.

Resetting Value:

	Tune	Voice Vol	Layer Vol	Metro. Vol	Local	Channel	Tempo	Voice Select	Auto Power Off
Factory Default	0	127	100	100	ON	1	120	1(Grand Piano)	OFF

	Metronome	Touch	Treble EQ	Bass EQ
Factory Default	4/4	Normal	05	08

Advanced Functions Keyboard Chart



Specifications

Keyboard:	88 weighted velocity-sensitive keys
Display:	Multi - Function LED Display
Voice:	8
Polyphony:	32
Voice Control:	Layer, Layer level, Keyboard sensitivity, Tuning
Metronome:	On/off, Level, Time signature
Pedal Response:	Sustain
Effect:	Reverb, Chorus, Bass EQ, Treble EQ
Demo Songs:	8
MIDI & Audio:	Channels 1-16, Local On/Off; USB MIDI
Connectors:	USB To Host, Pedal, Line Out L/R, Phones, DC Power
Speakers:	YDT713 10W/8ohm x 2 YD66 10W/8ohm x 2
Dimensions(W x D x H):	50 x 10.6X7.1 inches, 1270mm x 270mm x 180 mm
Weight:	9Kg
Supplied Accessories:	Owner's Manual, Music Rest

10506105-V1.0

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.



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